

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/812,276 03/20/2001		Michio Horiuchi	072-01	2361	
7.	590 01/29/2002		•		
Paul & Paul 2900 Two Thousand Market Street			EXAMINER		
Philadelphia, PA 19103			COSTANZO, PATRICIA M		
			ART UNIT	PAPER NUMBER	
			2811 DATE MAILED: 01/29/2002	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

<u> </u>			<u>,,</u>	Application	on No.	Applicant(s)			
Offic Action Summa				09/812,276		HORIUCHI ET AL.			
			ary	Examiner		Art Unit	<u> </u>		
					. Costanzo	2811			
		ING DATE of this commu	nication appe			1	ddress		
THE N - Exten after: - If the - If NO - Failui - Any re	ORTENED MAILING D sisions of time in SIX (6) MONTH period for reply period for reply tre to reply withi eply received b	STATUTORY PERIOD IN ATE OF THIS COMMUNATE OF THIS COMMUNATE OF THIS COMMUNATE OF THIS FORM THE MALE OF THE OF THE MALE OF THE	IICATION. s of 37 CFR 1.136 munication. (30) days, a reply of statutory period wi y will, by statute, of	6(a). In no eve within the stati ill apply and wi cause the app	ent, however, may a reply be story minimum of thirty (30) Il expire SIX (6) MONTHS fr ication to become ABANDO	e timely filed days will be considered time rom the mailing date of this DNED (35 U.S.C. § 133).	ely. communication.		
1) 🗌	Responsi	ive to communication(s) f	iled on	_ •					
2a) <u></u> ☐	This action	on is FINAL.	2b)☐ This	s action is	non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Clai	ms					, 1 4		
4) 🖾	Claim(s)	<u>1 - 38</u> is/are pending in th	e application	٦.					
4a) Of the above claim(s) is/are withdrawn from consideration.									
5) Claim(s) is/are allowed.									
6)	Claim(s) _	is/are rejected.							
7) 🗌	Claim(s) _	is/are objected to.							
8)⊠	Claim(s) <u>1</u>	- 38 are subject to restric	ction and/or e	election re	quirement.		•		
Application	on Papers								
9) 🔲 7	The specific	cation is objected to by th	e Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
11)∟_ T	• •	ed drawing correction file		•		proved by the Examir	ner.		
If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner.									
Ť		•	b by the Exam	miner.					
		S.C. §§ 119 and 120)(-) (d) (6)			
•		Igment is made of a clain	n for foreign	prionty un	der 35 U.S.C. § 118	o(a)-(a) or (1).			
•		Some * c) None of:		have been	a resolved				
		ified copies of the priority				ation No			
		ified copies of the priority					Stago		
		ies of the certified copies application from the Interi ched detailed Office action	national Bure	au (PCT I	Rule 17.2(a)).		Stage		
14) 🗌 A	cknowledg	ment is made of a claim t	or domestic	priority un	der 35 U.S.C. § 119	9(e) (to a provisiona	l application).		
		anslation of the foreign la							
Attachment((s)								
2) 🔲 Notice	of Draftspers	es Cited (PTO-892) son's Patent Drawing Review (F ure Statement(s) (PTO-1449) P				ary (PTO-413) Paper No al Patent Application (PT			

Application/Control Number: 09/812,276

Art Unit: 2811

DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

 Claims 1, 15, and 20 are drawn to a semiconductor device, classified in class 257, subclass 668.

II. Claims 10, 17 – 19, 31, and 35 are drawn to a process of production of a semiconductor device, classified in class 438, subclass 106⁺.

The inventions of groups I and II are related as product made and process of making. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)).

In the instant case, the inventions are distinct each from the other because the electronic device as claimed could be made by a process that is materially different from the process as claimed. For example, the product of Claims 1, 15, and 20 could be made by a process including the step of forming through holes in the thickness direction in a tape substrate having an area able to accommodate a "single" semiconductor package unit instead of by the process recited in Claims 10, 17, 18, 19, which includes the step of forming through holes in the thickness direction in a tape substrate having an area able to accommodate a "plurality of" semiconductor package units.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Applicant is advised that the response to this requirement to be complete must include an election of the invention to be examined even though the requirement is traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

This application is further restricted because it contains claims directed to the following patentably distinct species of the claimed invention:

Embodiment 1 of Figs. 3 - 9

Embodiment 2 of Figs. 10 - 16

Embodiment 3 of Figs. 17 - 22

Embodiment 4 of Fig. 23

Embodiment 5 of Figs. 24 - 25

Embodiment 6 of Figs. 26 - 27

Embodiment 7 of Fig. 28

Embodiment 8 of Figs. 29 - 31

Embodiment 9 of Fig. 30

Application/Control Number: 09/812,276

Art Unit: 2811

Embodiment 10 of Fig. 33

Embodiment 11 of Fig. 34

Embodiment 12 of Fig. 35

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claims are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Art Unit: 2811

Conclusion

Any inquiry concerning this communication should be directed to **Patricia Costanzo** at **703 305 - 5675** on Monday – Friday from 8:00 A.M. - 5:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful Supervisory **Primary Examiner Tom Thomas** can be reached at **703 308-2772**.

Any inquiry of a general nature or relating to the status of this application should be directed to the **Group Receptionist** at **703 308 - 0956**.

pmc January 22, 2002

TOM THOMAS SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800